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RFB4 LIGHT CHAIN

```
1 D I Q M T Q T T S S L S A S L G D R V T 60
1 gat atc cag atg acc cag act aca tcc tcc ctg tct ggc tct ctg gga gac aga gtc acc 20

21 I S C R A S Q D I S N Y L N W Y Q Q K P 40
61 att agt tgc agg gca agt cag gac att agc aat tat tta aac tgg tat cag cag aaa cca 120

41 D G T V K L L I Y Y T S I L H S G V P S 60
121 gat gga act gtt aaa ctc ctg atc tac tac aca tca ata tta cac tca gga gtc cca tca 180

61 R F S G S G S G T D Y S L T I S N L E Q 80
181 agg ttc agt ggc agt ggg tct gga aca gat tat tct ctg acc att agc aac ctg gag caa 240

81 E D F A T Y F C Q Q G N T L P W T F G 100
241 gaa gat ttt gcc act tac ttt tgc caa cag ggt aat acg ctt ccg tgg acg ttc ggt gga 300

101 G T K L E I K 107
301 ggc acc aag ctg gaa atc aaa 121
```

RFB4 HEAVY CHAIN

```
1 E V Q L V E S G G G L V K P G G S L K L 20
1 gaa gtg cag ctg gtg gag tct ggg gga ggc tta gtg aag cct gga ggg tcc ctg aaa ctc 60

21 S C A A S G F A F S I Y D M S W V R Q T 40
61 tcc tgt gca gcc tct gga ttc gct ttc agt atc tat gac atg tct tgg gtt cgc cag act 120

41 P E K R L E W V A Y I S S G G T T Y Y 60
121 ccg gag aag agg ctg gag tgg gtc gca tac att agt agt ggt ggt acc acc tac tat 180

61 P D T V K G R F T I S R D N A K N T L Y 80
181 cca gac act gtg aag ggc cga ttc acc atc tcc aga gac aat gcc aag aac acc ctg tac 240

81 L Q M S S L K S E D T A M Y Y C A R H S 100
241 ctg caa atg agc agt ctg aag tct gag gac aca gcc atg tat tac tgt gca aga cat agt 300

101 G Y G S S Y G V L F A Y W G Q G T L V T 120
301 ggc tac ggt agt agc tac ggg gtt ttg ttt gct tac tgg ggc caa ggg act ctg gtc act 360

121 T S A 123
361 gtc tct gca 369
```

Fig. 1

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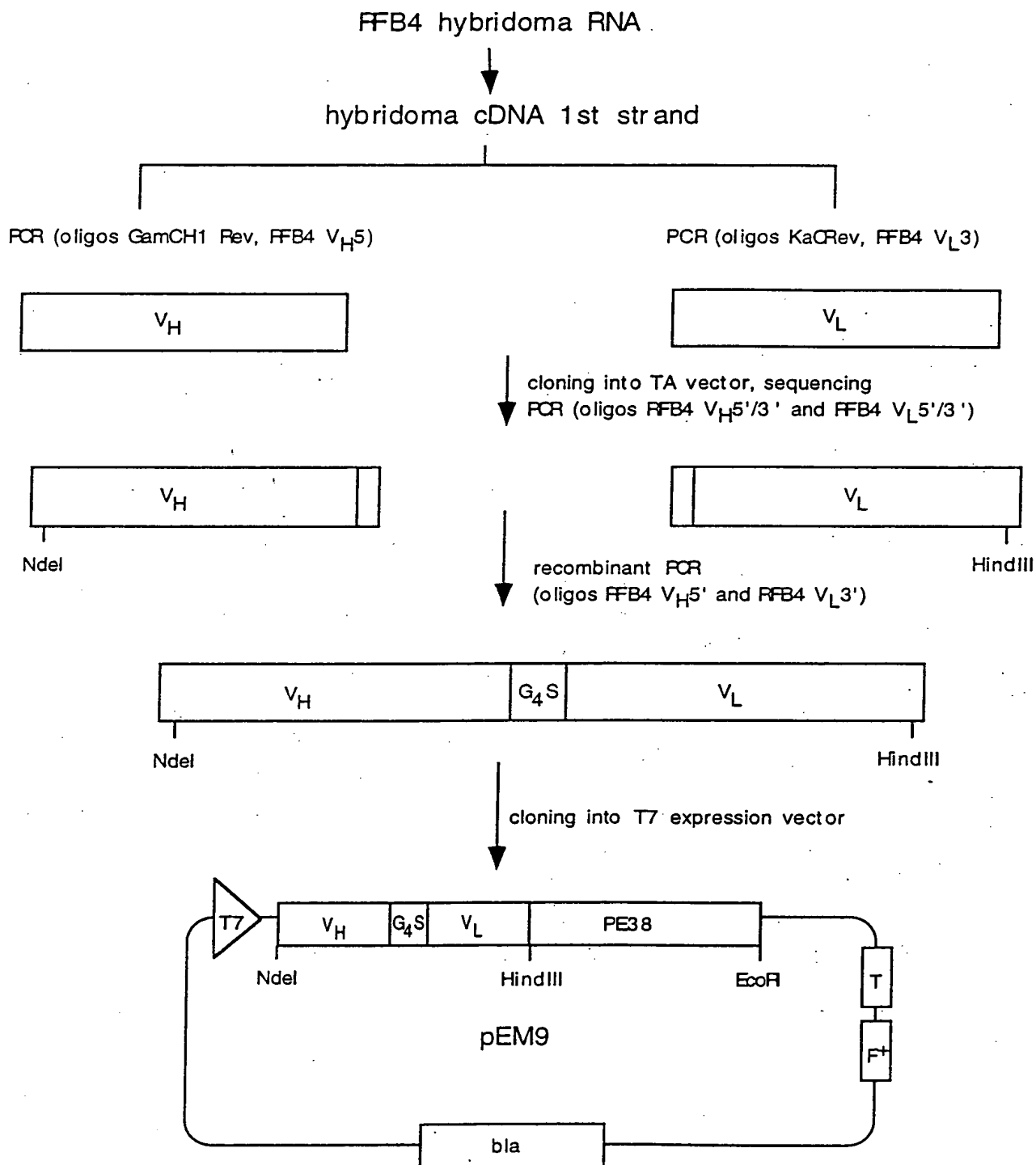


Fig. 2A

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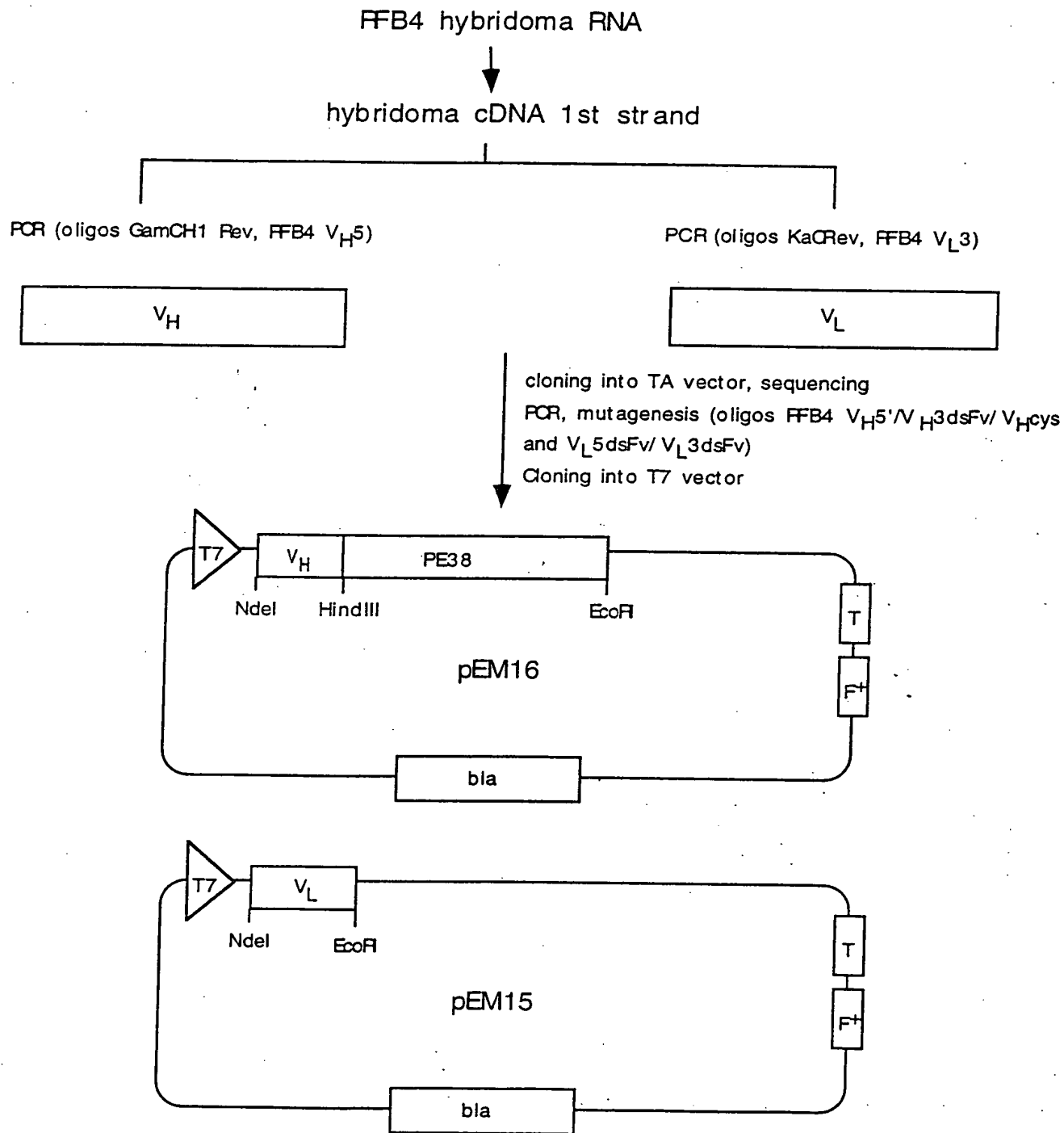


Fig. 2B

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RFB4(dsFv)PE38 cytotoxicity towards various cell lines

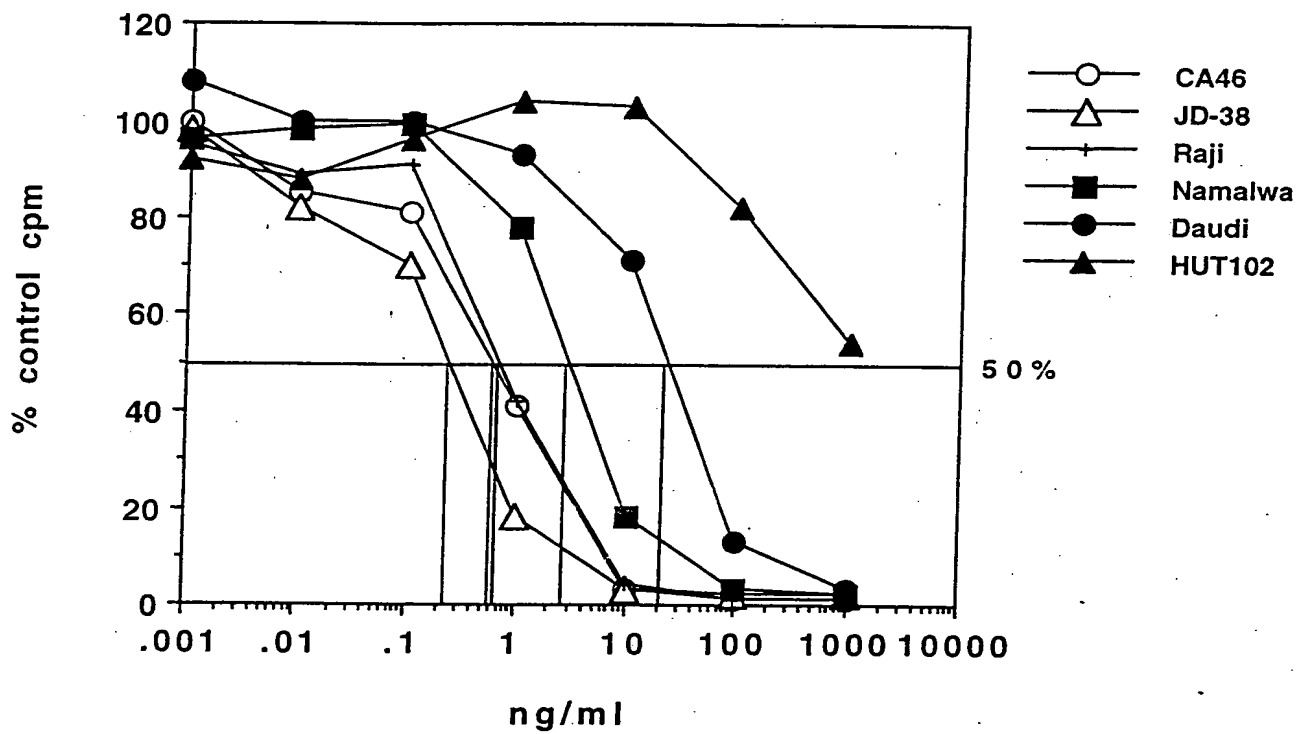


Fig. 3

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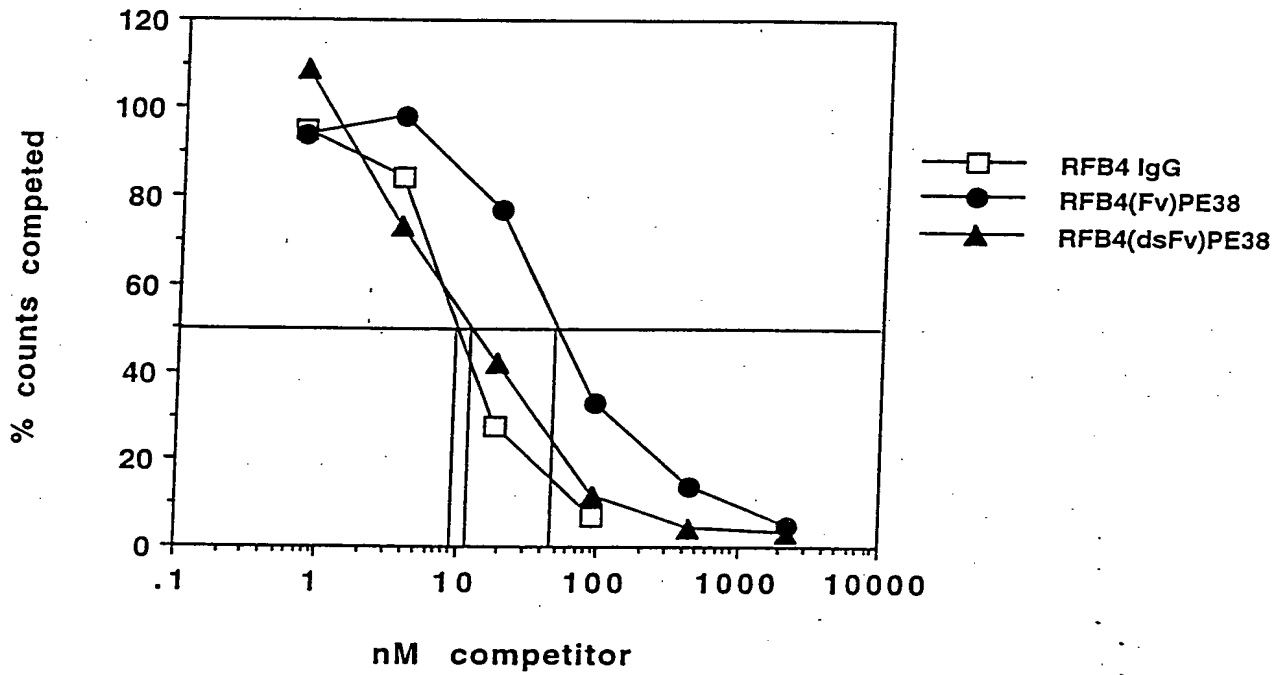


Fig. 4

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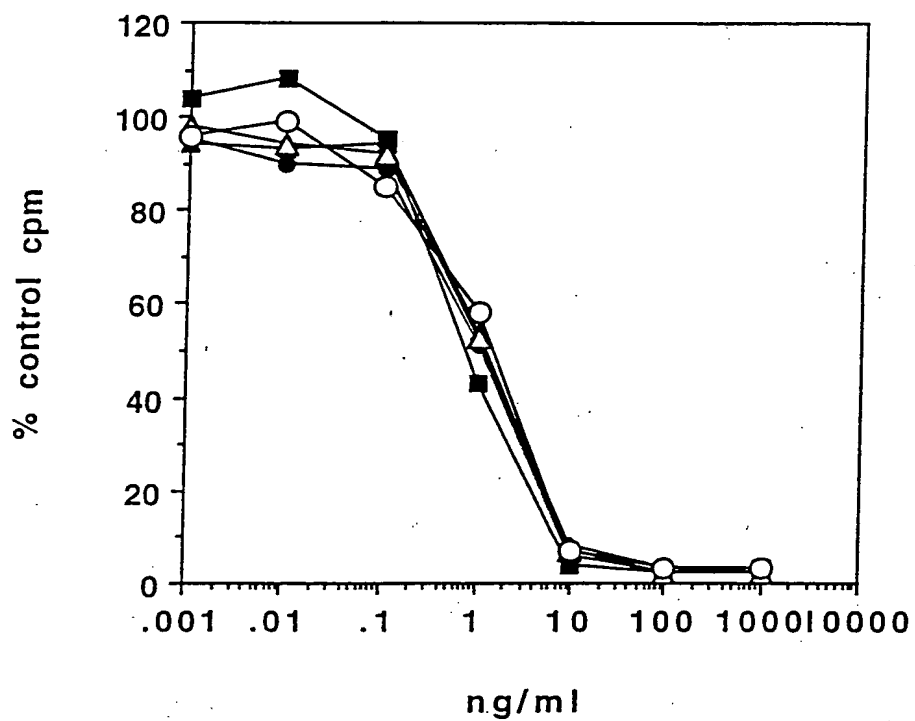


Fig. 5

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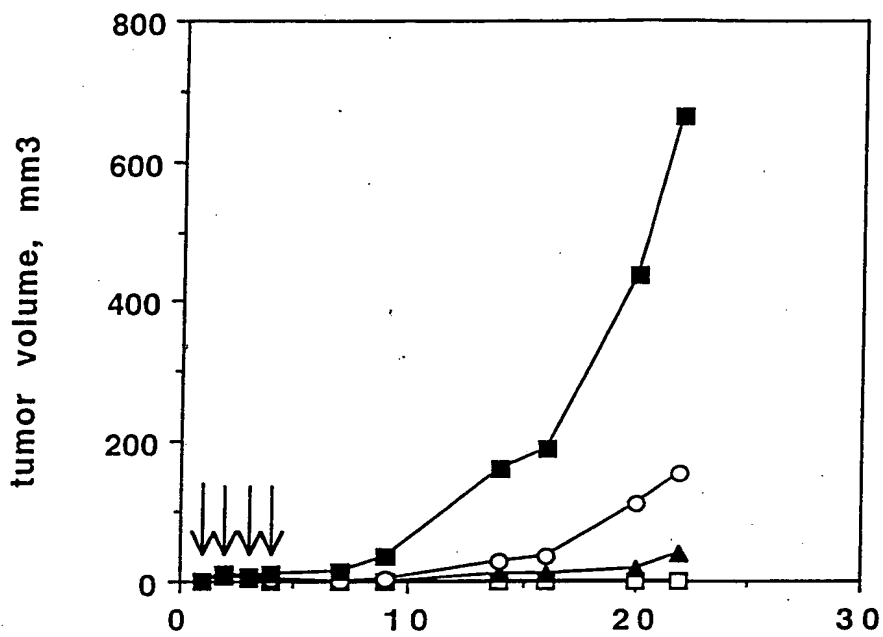


Fig. 6A

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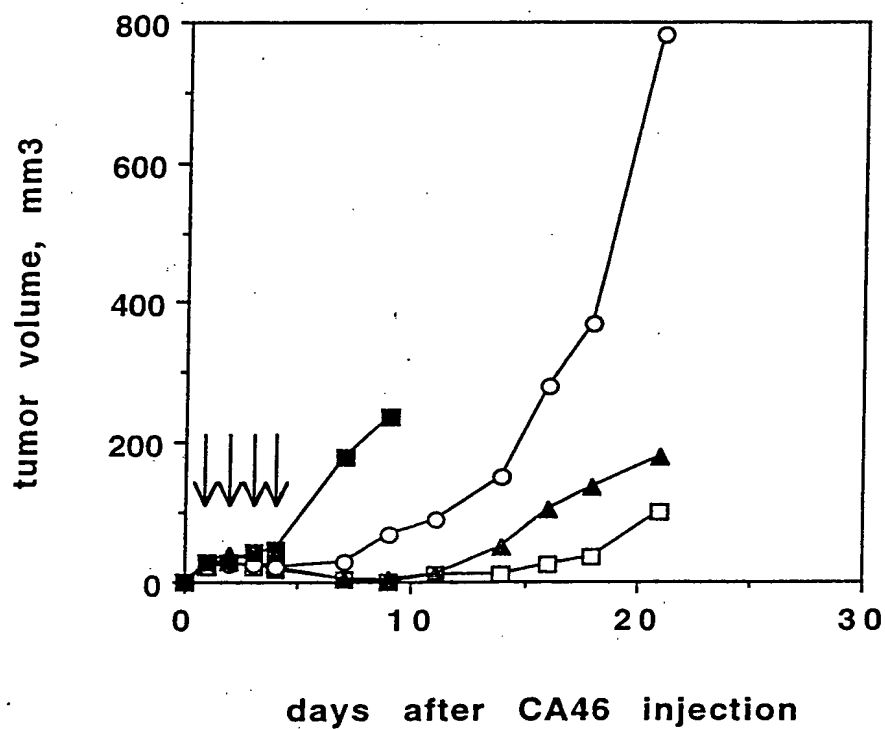


Fig. 6B

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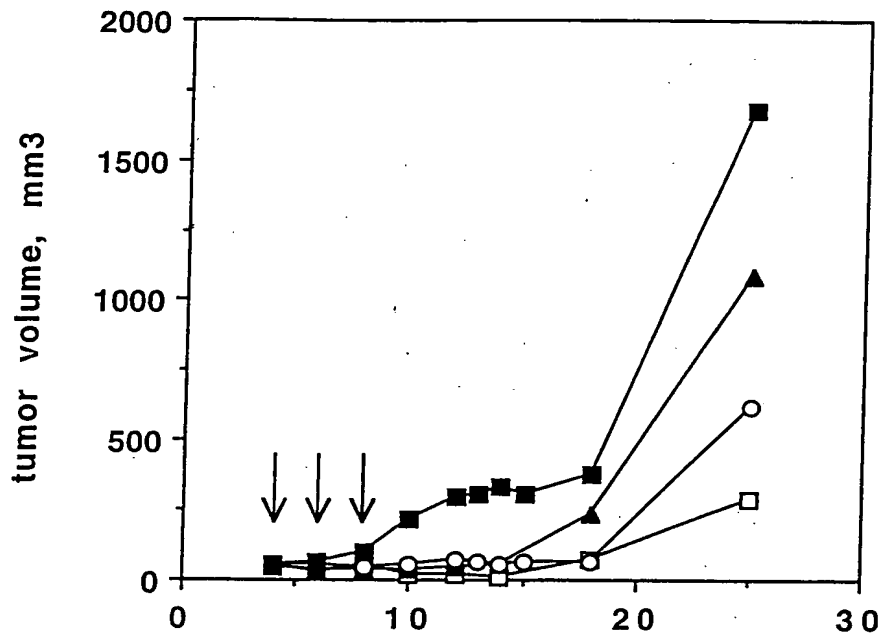


Fig. 7A

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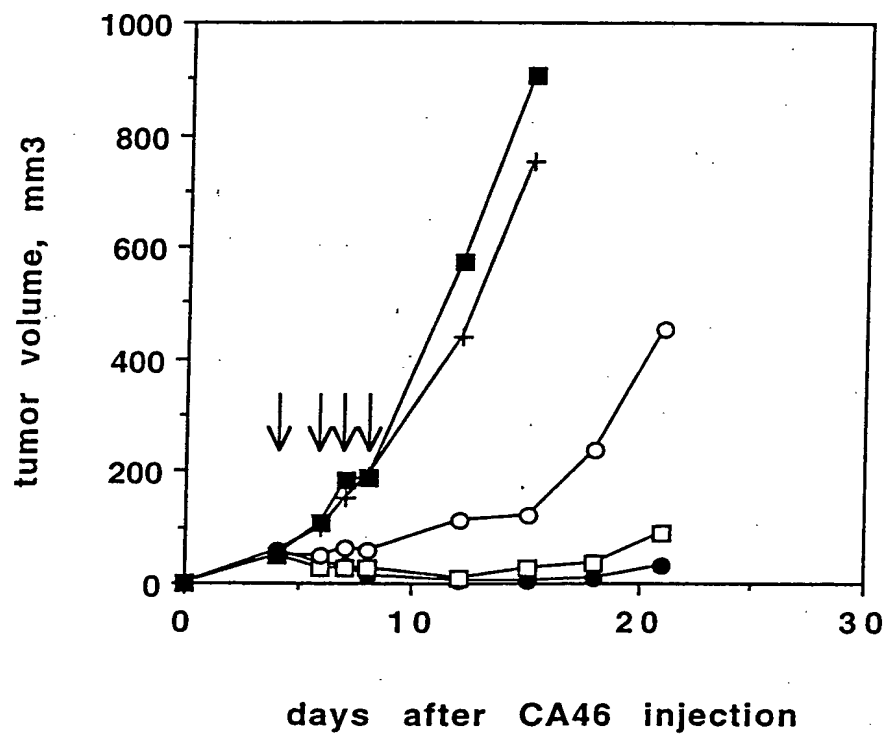


Fig. 7B

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ANTITUMOR ACTIVITY OF RFB4(dsFv)-PE38 IN MICE

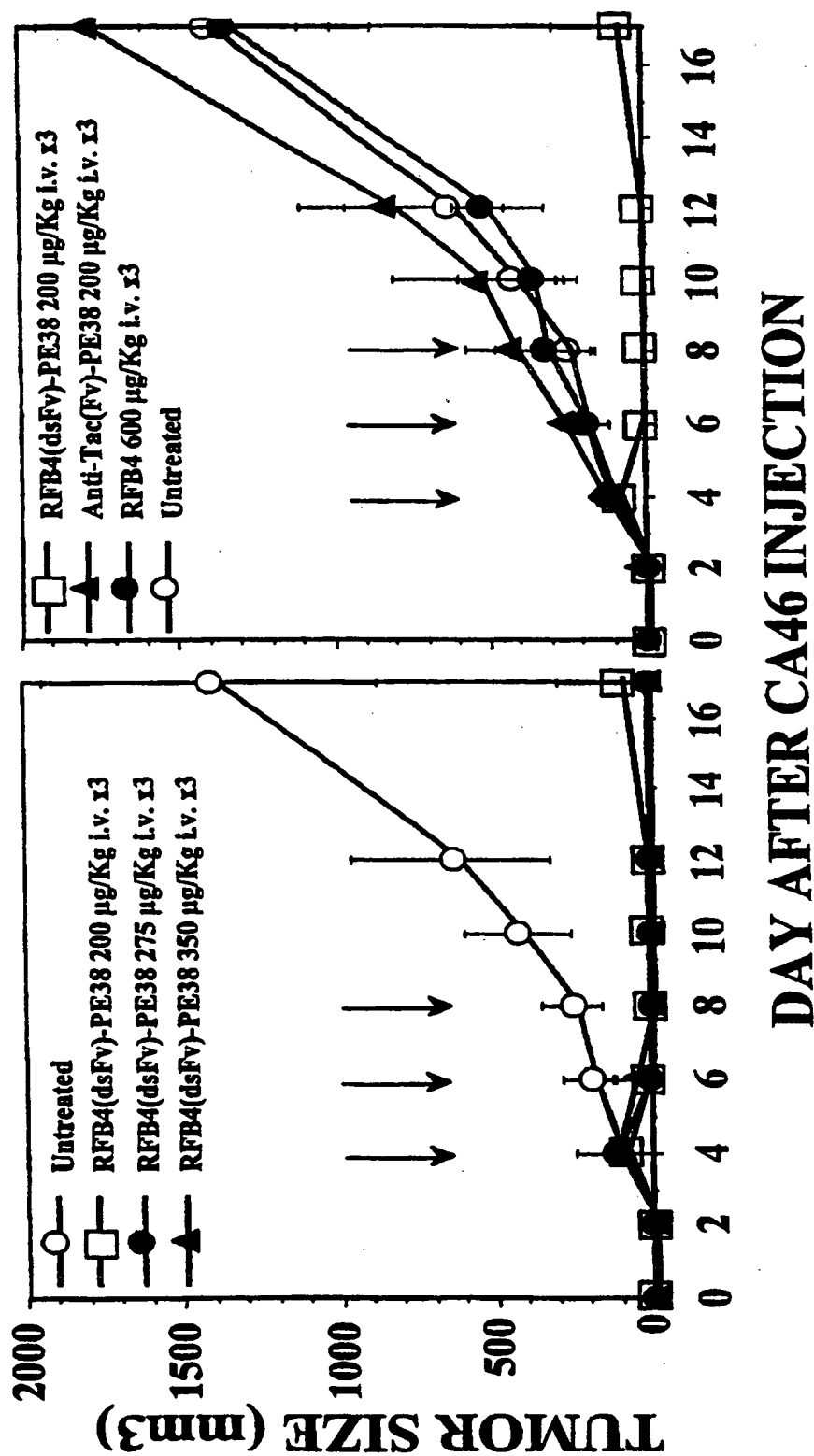


Figure 8A

Figure 8B

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PHARMACOKINETICS OF RFB4(dsFv)-PE38

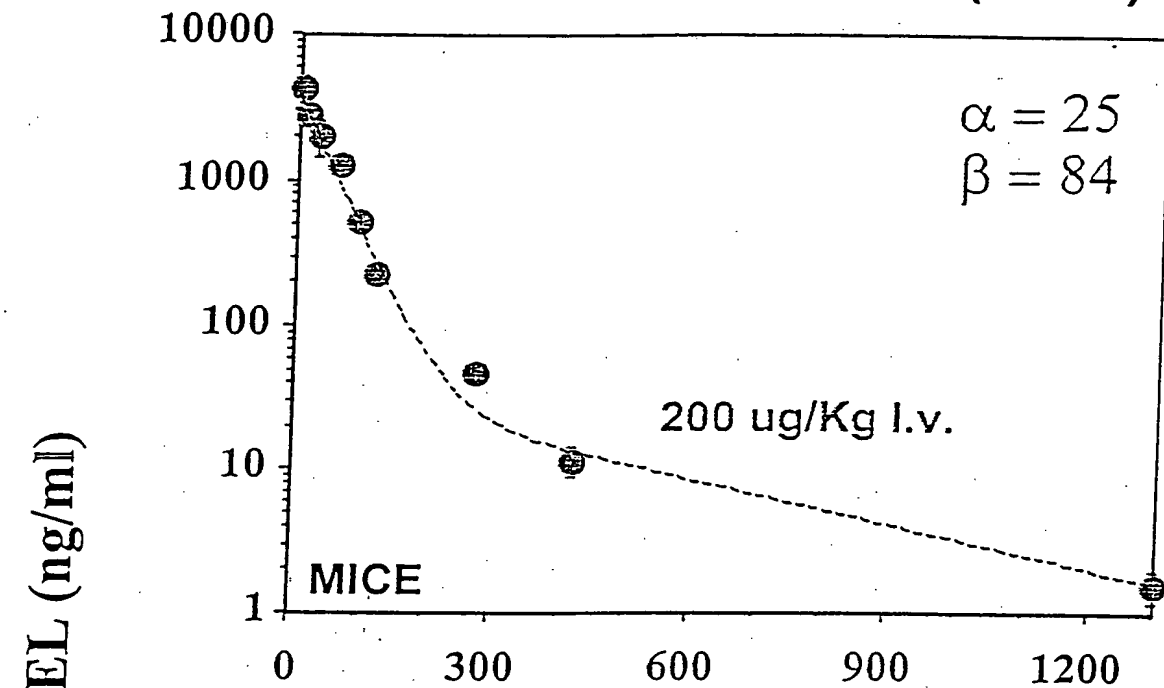


Fig. 9A

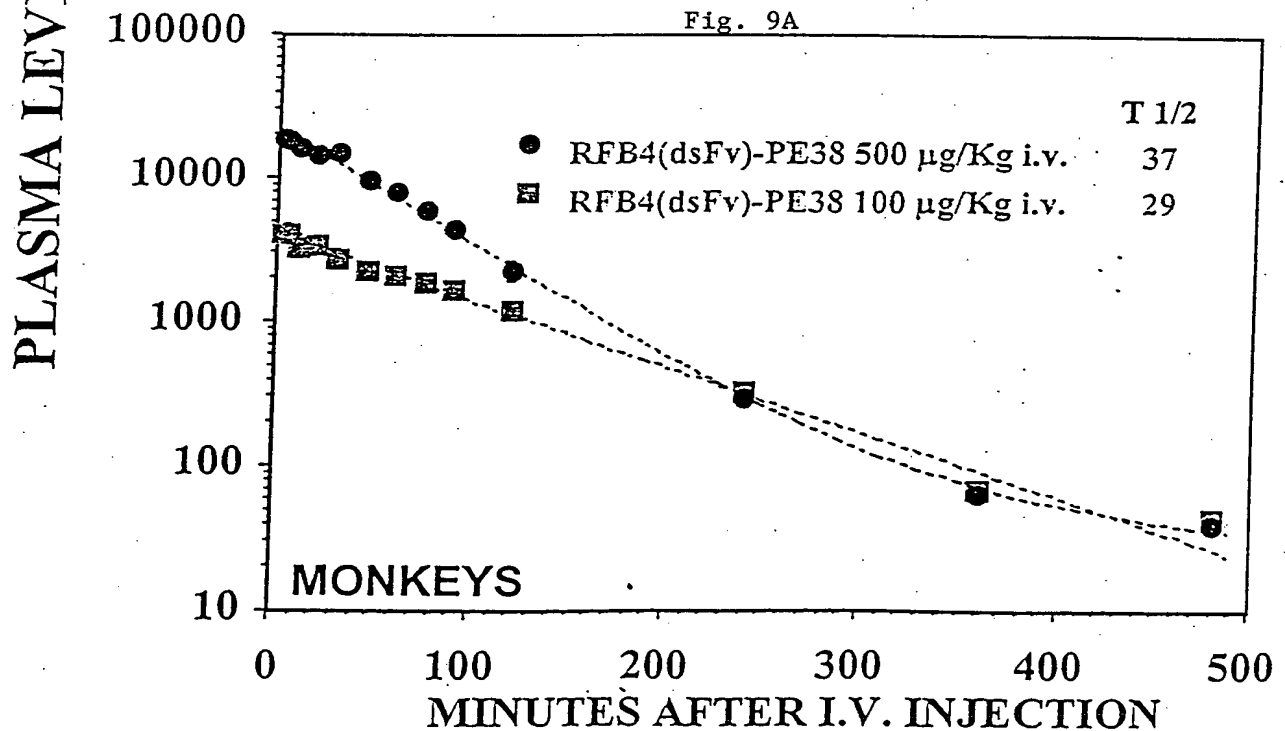


Fig. 9B